

AFFINITY SELECTED SIGNATURE PEPTIDES FOR PROTEIN
IDENTIFICATION AND QUANTIFICATION

Abstract

5 A method for protein identification in complex mixtures that utilizes
affinity selection of constituent proteolytic peptide fragments unique to a protein
analyte. These "signature peptides" function as analytical surrogates. Mass
spectrometric analysis of the proteolyzed mixture permits identification of a
protein in a complex sample without purifying the protein or obtaining its
10 composite peptide signature.

"EXPRESS MAIL" MAILING LABEL NUMBER: EL 776904892 US

DATE OF DEPOSIT: May 4, 2001
I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE
UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE"
SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO
THE ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

PRINTED NAME: Kimberly A. Hoyer

SIGNATURE: Kimberly A. Hoyer